

Code No. 10371

**Anti-Human  
NP95 (mt40) Mouse IgG MoAb**Volume : 100 µg

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**Introduction** : Np95 has been originally found as a tumor-specific nuclear antigen of 95kDa in mice. Experiments using B10 strains showed that Np95 is enriched in precancerous cells and is abnormally expressed throughout cell cycle in radiation-induced lymphomatoid cells. Recent attention is put on the epigenetic role of Np95, which mediates the interplay between DNA methylase and hemi-methylated sites to maintain DNA methylation patterns at replication forks.

This antibody is available for detection of the human nucleoprotein NP95 (also known as UHRF1), whose function is dependent on S-phase in non-neoplastic cells but could be modified with aberrant cell cycle during tumorigenesis.

**Antigen** : Purified human NP95 protein

**Source** : Mouse-Mouse hybridoma  
(SP210 × BALB/c mouse spleen cells, ascites)

**Clone** : mt40      **Subclass** : IgG<sub>1</sub>

**Purification** : Affinity purified with Protein A

**Form** : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL

**Stability** : Lyophilized product, 5 years at 2 - 8 °C  
: Solution, 2 years at -20 °C

**Application** : This antibody can be used for western blotting in concentration of 1 - 10 µg/mL

**Reference** : 1. Sharif J, Muto M, Takebayashi S, Suetake I, Iwamatsu A, Endo TA, Shinga J, Mizutani-Koseki Y, Toyoda T, Okamura K, Tajima S, Mitsuya K, Okano M, Koseki H. The SRA protein Np95 mediates epigenetic inheritance by recruiting Dnmt1 to methylated DNA. *Nature*. 2007 Dec 6;450(7171):908-12.  
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7. Fujimori A, Matsuda Y, Takemoto Y, Hashimoto Y, Kubo E, Araki R, Fukumura R, Mita K, Tatsumi K, Muto M. Cloning and mapping of Np95 gene which encodes a novel nuclear protein associated with cell proliferation. *Mamm Genome*. 1998 Dec;9(12):1032-5.

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